

ELEVATOR SAFETY BOARD MEETING

JUNE 21, 2006

**LOCATION: MISSOURI DIVISION OF FIRE SAFETY, 2401 E MCCARTY STREET
JEFFERSON CITY, MISSOURI**

BOARD MEMBERS PRESENT

**John McNerney
George Lodes
J A Marchack
Suzan Mehalko
Gerri Kielhofner
Wilson Winn
Michele S. Ohmes**

STAFF PRESENT

**Randy Cole, State Fire Marshal
Greg Carroll, Asst. State Fire Marshal
Larry Watson, Deputy Chief Elev Safety
Amiee Forck, Elevator Safety Unit
Vince Daus, State Elevator Inspector
Bill Jamison, State Elevator Inspector
Wendy Eiss, State Elevator Inspector
Ron Evans, State Elevator Inspector
Dan Daniels, State Elevator Inspector
Stephanie Monnig, Elevator Safety Unit**

BOARD MEMBERS ABSENT

**Mark James, Director of Public Safety
Tom Corso
Kay Donovan**

VISITORS

**Scott Hotsinpillar, Killian Construction
Jeff Tennis, City of Joplin
Charles Ferrell, State of Missouri
Tim Middleton, Pineview Heights**

I. OPEN AND WELCOME

Chairman McNerney called the meeting to order at 9:30 AM. Introductions were made by all present.

II. APPROVAL OF THE MAY 3, 2006 MINUTES

Mr. Marchack motioned to approve the May minutes as written. Mr. Lodes seconded the motion. Motion passed unanimously.

III. VARIANCE REQUEST OASIS INN- SPRINGFIELD

The location is requesting variances on the ceiling height being under the required maximum of 7 foot and to allow the sprinkler branch line in the hoistway to service more than one floor.

Mr. Marchack motioned to accept provided signage is posted and the building occupancy does not change. Mr. Lodes seconded the motion. Motion passed unanimously. Mrs. Kielhofner abstained from voting.

Mr. Lodes motioned to deny the request and require the sprinkler line be corrected. Mr. Marchack seconded the motion. Motion passed unanimously. Mrs. Kielhofner abstained.

IV. VARIANCE REQUEST CITY OF JOPLIN- NEWMAN BUILDING

The location is requesting a variance to allow the vent stack in the hoistway,

Mr. Winn motioned to grant the variance provided the area around the vent into the hoistway is fire sealed. Mrs. Kielhofner seconded the motion. Motion passed unanimously.

V. VARIANCE REQUEST GOVERNOR'S MASON- JEFFERSON CITY

The location is requesting a variance to allow the residential unit to remain as installed until replaced.

Mr. Winn motioned to grant a variance to allow the residential unit to remain as installed until the unit is renovated. Mrs. Kielhofner seconded the motion. Motion passed unanimously.

VI. VARIANCE REQUEST PINEVIEW HEIGHTS APARTMENTS- CABOOL

The location is requesting a variance to allow the security cables and junction box in the hoistway.

Mr. Winn motioned to grant the variance to allow the security cables and junction box in the hoistway. Mr. Marchack seconded the motion. Motion passed unanimously.

VII. VARIANCE REQUEST BARNES JEWISH HOSPITAL - QUEENY TOWER- ST. LOUIS

This variance was tabled for additional information. Inspector Daus reviewed the area and it was decided that a pit ladder would fit in the corner post area.

Mr. Lodes motioned to deny the variance and install a pit ladder. Mrs. Mehalko seconded the motion. Motion passed unanimously.

VIII. VARIANCE REQUEST EASTWOOD MEMORIAL UNITED METHODIST CHURCH- CARUTHERSVILLE

The location is requesting a variance to allow a residential installation to remain in a commercial application.

Mr. Marchack motioned to grant the variance provided all switches are keyed and the building occupancy does not change. Mrs. Ohmes seconded the motion. Motion passed unanimously.

IX. VARIANCE REQUEST HAZZARD MOVING AND STORAGE- ST. LOUIS

The location is requesting a variance on not installing a rope data tag.

Mr. Lodes motioned to deny the variance. Mrs. Ohmes seconded the motion. Motion passed unanimously.

X. VARIANCE REQUEST PARKVIEW CHRISTIAN CHURCH- SEDALIA

The location is requesting a variance to allow the electrical panel to remain in the elevator machine room.

Mrs. Ohmes motioned to grant the variance. Mr. Winn seconded the motion. Motion passed unanimously.

XI. MACHINE ROOMLESS INSTALLATION

Mr. Marchack motioned to accept the machine roomless elevators based on meeting the requirements for the 2004 ASME Code Supplement. The locations approved are Ely Walker Lofts, Missouri State University- Jordan Valley Innovation, and Branson Landing Building 9 & 10.

XII. ELEVATOR INSPECTOR APPLICATIONS

Kirk Pohl-

Mr. Winn motioned to issue Mr. Pohl's license subject to a new insurance certificate being provided showing a policy number on the professional liability (Section C) portion of the certificate. Mrs. Kielhofner seconded the motion. Motion passed unanimously.

Roxy DeCarlo-

Mr. Lodes motioned to issue Mr. DeCarlo's license upon receipt of the licensing fee. Mrs. Ohmes seconded the motion. Motion passed unanimously.

Herlen Bess-

Mr. Bess's application was tabled based on compliance with Section 11 SCR 40.5-120(9) Prohibited Activities. The Board requested written confirmation of compliance from Mr. Bess. Mr. Lodes seconded the motion. Motion passed unanimously.

XIII. PROPOSED ELEVATOR RULE CHANGES

Deputy Chief Watson reviewed the sections of the Elevator Rules and Regulations that will need to be changed to implement the AMSE 2004 Code adoption and a State Operating Certificate Fee increase to cover increased operating expenses for the Elevator Safety Unit.

XIV. REVIEW OF ASME A17.1S-2005 AND ASME 2004 CODE WITH ADDENDUM

Deputy Chief Watson reviewed Appendix L- Index of Alteration Requirements for Electric Elevator, Hydraulic Elevators, Escalators and Moving Walks. He advised the Board the items highlighted are items that would require a permit to be obtained from the state prior to performing an alteration. The list was reviewed and the items marked with the letters "PR" requires a plan review with the full fees remitted. All other highlighted items not marked require an alternation permit fee of \$20.

It was the consensus of the Board to review Appendix L to vote on at the next meeting.

Single Bottom Jacks-

Mr. Lodes motioned to accept the AMSE 2004 Code Section 8.6.5.8 Safety Buklhead regarding single bottom jacks as written. (See referenced section below.) Mrs. Ohmes seconded the motion. Motion passed unanimously.

8.6.5.8 Safety Bulkhead. Hydraulic cylinders installed below ground shall conform to 3.18.3.4, or the elevator shall conform to 8.6.5.8(a) or 8.6.5.8(b):

(a) the elevator shall be provided with car safeties conforming to 3.17.1 and guide rails, guide-rail supports, and fastenings conforming to 3.23.1; or

(b) the elevator safety be provided with a plunger gripper conforming to 3.17.3. The plunger gripper shall grip the plunger when the applicable maximum governor tripping speed in table 2.18.2.1 is achieved.

It was the consensus of the Board to allow variances on a case-by-case basis regarding the replacement of single-bottom jacks.

Step/Skirt Performance Index-

Mr. Winn commented, "We need to make sure the public is aware there is an avenue for a variance to be requested on installed the step/skirt indexes."

Mrs. Ohmes commented, "Communication is vital in this situation. It is very important to communicate to the public the way the implementation of the code changes will be handled."

Mr. Lodes motioned to adopt the ASME 2004 Code Section 8.6.8.3 Step/Skirt Performance Index as written. (See reference section below) Mr. Marchack seconded the motion. Motion passed unanimously.

8.6.8.3 Step/Skirt Performance Index

8.6.8.3.1 The step/skirt performance index, when the escalator is subjected to the test specified in 8.11.4.2.19, shall be the maximum value of the recorded instantaneous step/skirt index $e_y/(e_y + 1)$, where

(SI Units)

$$e = 2.7183$$

$$y = -3.77 + 2.37 (\mu) + 0.37 (Lg)$$

μ = the sliding coefficient of friction of a polycarbonate test specimen on the skirt panel at the measurement point calculated when subjected to a 110 N normal load. The coefficient of friction shall be measured without addition of any field-applied lubricant.

Lg = the clearance between the step and the adjacent skirt panel when 110 N is applied from the step to skirt panel, mm².

The applied load shall not deviate from 110 N by more than ± 11 N. The load shall be distributed over around or square area not less than 1 940 mm² and not more than 3 870 mm².

(Imperial Units)

$$e = 2.7183$$

$$y = -3.77 + 2.37 (\mu) + 9.3 (Lg)$$

μ = the sliding coefficient of friction of a polycarbonate test specimen on the skirt panel at the measurement point calculated when subjected to a 25 lbf normal load. The coefficient of friction shall be measured without addition of any field-applied lubricant.

Lg = the clearance between the step and the adjacent skirt panel when 25 lbf is applied from the step to skirt panel, in.

The applied load shall not deviate from 25 lbf by more than ± 2.5 lbf. The load shall be distributed over a round or square area not less than 3 in.² and not more than 6 in.²

8.6.8.3.2 *The step/skirt performance index polycarbonate test specimen shall conform to the following specifications:*

- (a) Material: Polycarbonate without fillers*
- (b) Color: Natural, no pigments*
- (c) Finish: Glossy (roughness less than 0.8 μm (32 $\mu\text{in.}$)*
- (d) Area in contact with skirt panel: 2 900 \pm 325 mm² (4.5 \pm 0.5 in.2) and at least 0.8 mm (0.03 in.) thick*
- (e) Specification: GE Lexan 100 series or equivalent polycarbonate*

8.6.8.3.3 *The escalator step/skirt performance index shall be one of the following, whichever is applicable:*

- (a) = 0.15*
- (b) = 0.25 for escalators installed under ASME A17.1a–2002 and later editions and when a skirt deflector device complying with the requirements of 6.1.3.3.7 is provided*
- (c) = 0.4 for escalators installed under ASME A17.1–2000 and earlier editions and a skirt deflector device is provided*

It was the consensus of the Board to allow variances on a case-by-case basis regarding the installation of the step/skirt indexes.

XV. OTHER

Chairman McNerney advised the Board he would like to see the Board look into the licensing of elevator contactors and mechanics in Missouri. We need to license the people that install elevator equipment. A company called CAT is now available to people to use to qualify for a license without going through the union. We especially need to license contactors because right now they can do or install any equipment without any repercussions.

Mr. Carrell asked, "What do other states use?" Chairman McNerney replied, "Most states use an apprentice program."

Mrs. Mehalko commented, "Our office uses the CAT program. They provide a book of 600 possible questions that could be on the test.

Mrs. Mehalko asked, "How will you deal with people that have been in the elevator business for years?" Chairman McNerney replied, "We would grandfather people currently in the industry. They will be required to show proof of years of service."

Mr. Carrell asked, "How many people do you think are in Missouri?" Chairman McNerney replied, "Approximately 550 to 600 people."

Mrs. Mehalko commented, "As I have mentioned in the past when we have discussed licensing we need to have classification for different aspects of the industry. For example a commercial and a residential classification."

Inspector Jamison commented, "So the license would be reciprocal with other states." Chairman McNerney replied, "Yes."

XVI. SCHEDULE THE NEXT MEETING

Date: August 23, 2006 9:30 AM

Location: Missouri Division of Fire Safety, 2401 E McCarty St, Jefferson City, Missouri